



**AS – Computer Science to  
BS – Computer Information Systems  
Software Engineering and Database Design Concentration  
2022-2023 Transfer Pathway**



| AS Degree Requirements              |                                     |   |     |            |           |   |           |
|-------------------------------------|-------------------------------------|---|-----|------------|-----------|---|-----------|
| Austin Community College            |                                     |   |     |            |           |   |           |
| ACC                                 | TAMUCT                              | Course Name   | SCH | ACC        | TAMUCT    | Course Name                                   | SCH       |
| HUMA 1301 or EDUC 1300 <sup>3</sup> | HUMA 1301 or EDUC 1300 <sup>3</sup> | Humanities: Prehistory to Renaissance or Learning Framework: Effective Strategies for College Success | 3   | GOVT 2305  | CORE 070  | United States Government                      | 3         |
| COSC 1336                           | COSC 1336                           | Programming Fundamentals I  | 3   | COSC 2436  | COSC 2436 | Programming Fundamentals III: Data Structures | 4         |
| ENGL 1301                           | CORE 010                            | English Composition I   | 3   | CORE 030   | CORE 030  | Life & Physical Science Core Selection        | 3         |
| MATH 2413                           | CORE 020                            | Calculus I  | 4   | Literature | CORE 040  | Literature                                    | 3         |
| HIST 1301                           | CORE 060                            | United States History I   | 3   | GOVT 2306  | CORE 070  | Texas State and Local government              | 3         |
| MATH 2414                           | MATH 2414                           | Calculus II   | 4   | COSC 2325  | COSC 2325 | Computer Organization and Machine Language    | 3         |
| ENGL 1302                           | CORE 090                            | English Composition II  | 3   | CORE 030   | CORE 030  | Life & Physical Science Core Selection        | 3         |
| PHIL 1301                           | CORE 090                            | Introduction to Philosophy  | 3   | ECON 2302  | CORE 080  | Principles of Microeconomics                  | 3         |
| HIST 1302                           | CORE 060                            | United States History II  | 3   | CORE 050   | CORE 050  | Creative Arts Core Selection                  | 3         |
| COSC 1337                           | COSC 1337                           | Programming Fundamentals II   | 3   |            |           |   |           |
| <b>Subtotal</b>                     |                                     |   |     |            |           |   | <b>60</b> |

| Additional Lower-Level or Upper-Level Degree Requirements        |                                      |   |          |
|--|--------------------------------------|---|----------|
| Austin Community College or Texas A&M University – Central Texas |                                      |   |          |
| Austin Community College   | Texas A&M University - Central Texas | Course Name   | SCH      |
| SPCH 1311, SPCH 1315, or SPCH 1321 <sup>1</sup>                  | CORE 010                             | Introduction to Speech Communication, Public Speaking, or Business & Professional Communication | 3        |
| BCIS 1305 or COSC 1301 <sup>1</sup>                              | BCIS 1305 or COSC 1301               | Business Computer Applications or Introduction to Computing                                     | 3        |
| COSC 1315 <sup>1</sup>   | COSC 1315                            | Fundamentals of Programming   | 3        |
| <b>Subtotal</b>  |                                      |   | <b>9</b> |

| Upper-Level Degree Requirements          |  |     |                                      |                                     |     |
|--|--|-----|--------------------------------------|-------------------------------------|-----|
| Texas A&M University - Central Texas     |  |     |                                      |                                     |     |
| Texas A&M University - Central Texas     | Course Name  | SCH | Texas A&M University - Central Texas | Course Name                         | SCH |
| CIS 3315                                 | Web Site Development and Design  | 3   | CIS 3365                             | System Analysis and Design          | 3   |
| MGMT 3301                                | Principles of Management   | 3   | CIS 4301                             | Database Theory and Practices       | 3   |
| CIS 3340, CIS 3341, CIS 3342 or CIS 3343 | Advanced C++ Programming, Advanced Visual Basic Programming, Advanced Java Programming or C# Programming for Windows and the Web | 3   | CIS 3351                             | Data Structures                     | 3   |
| BUSI 3311                                | Business Statistics  | 3   | CIS 4360                             | Strategic Information Systems       | 3   |
| CIS 4341                                 | Information Technology Security and Risk Management  | 3   | CIS 4340                             | Algorithm Design and Analysis       | 3   |
| CIS 3347                                 | Data Communications and Infrastructure   | 3   | CIS 4352                             | Structured Query Language           | 3   |
| CIS 3360                                 | Ethics in Computing  | 3   | CIS 4379                             | Software Engineering for E-Business | 3   |
| CIS 4350                                 | Management Information Systems   | 3   | Upper-Level CIS or COSC Electives    | Upper-Level CIS or COSC Electives   | 3   |
| CIS 4351                                 | IS Project Management  | 3   |                                      |                                     |     |
| <b>Subtotal</b>                          |  |     |                                      | <b>51</b>                           |     |
| <b>Total</b>                             |  |     |                                      | <b>120</b>                          |     |

**Notes/Comments**

The following Pathway Plan is suggested for full-time students. A part-time student will need more time to complete this pathway. For assistance with pathway planning, students should schedule an appointment with an academic advisor. This guide is for planning and visualization purposes only.

1. Not all Degree Requirement courses are completed with the AS. Students will need to complete these remaining lower-level courses at the community college. Please consult a TAMUCT financial aid counselor regarding the consortium agreement process.
2. Any-level electives may be taken at either at Texas A&M University-Central Texas or another institution. Please consult an academic advisor prior to selecting any-level electives.
3. All first-time Austin Community College (ACC) students with fewer than 12 SCH of successful college credit must take the HUMA 1301 topic course Great Questions seminar or the EDUC 1300 course in their first semester at ACC. All other students may choose either HUMA 1301 topic course Great Questions seminar, EDUC 1300, or a speech course from the Component Area Option section of the Core Curriculum Course List.

## Transfer Information

### Transfer of Credit & Student Benefits

**Transfer Central! Your affordable path to a high-quality bachelor's degree.**

[Join Transfer Central](#) and receive exclusive access to resources designed to help you complete your bachelor's degree on time and with less debt:

- Personalized degree planning
- University email address
- Priority class registration
- Dedicated admission counselor
- Customized financial aid consultations
- Invitations to university events and activities

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### College of Business Administration

Explore all the opportunities the College of Business Administration at A&M-Central Texas has to offer. Visit us [ONLINE](#) to see what is happening!

**Start planning today. Schedule an appointment with a COBA academic advisor. Click [HERE](#) to find a time that meets your schedule.**

### Program Admission Requirements

Undergraduate Admission Requirements:

- Minimum 2.0 cumulative transfer GPA on a 4.0 scale
- Minimum 30 academic, college-level transferable hours
- Must be eligible to return to all previously attended institutions

Additional program admission standards may apply. Visit degree program pages or speak with an A&M-Central Texas admission counselor for additional information.

**Get Connected.** Meet in-person, virtually, or via the phone with an admissions counselor today. Click [HERE](#) to schedule an appointment convenient for you.

### Graduate Studies

Continue to advance your skills and new career opportunities with a graduate degree from Texas A&M University - Central Texas. Click to learn more about the following graduate degrees:

#### [Master of Business Administration](#)

- Computer Information Systems
- Healthcare Administration
- Human Resource Management
- Management
- Data Analytics micro-credential (pending internal approval)
- Leadership for Sustainability

#### [Master of Science – Accounting](#)

#### [Master of Science – Information Systems](#)

#### [Master of Science – Leadership for Sustainability](#)

Graduate Certificates

#### [Healthcare Administration](#)

#### [Leadership for Sustainability](#)